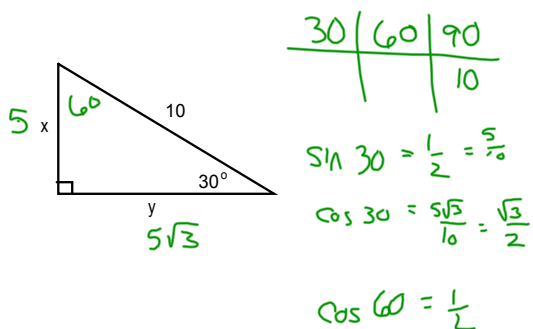


7-4 (Continued)

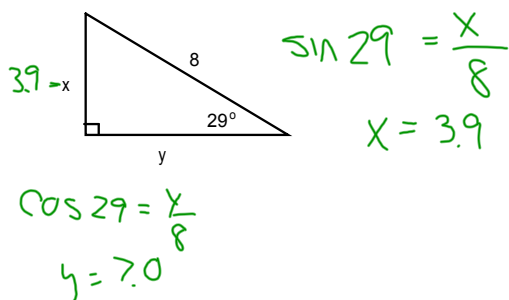
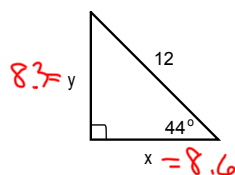
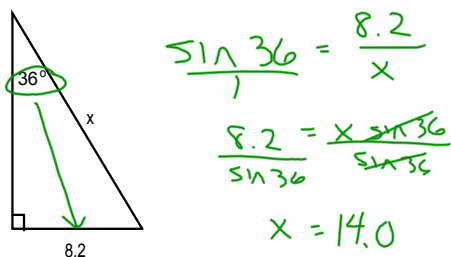
The Sine and Cosine Ratios



$$\sin = \frac{\text{opposite}}{\text{hypotenuse}} \quad \text{SOHCAHTOA}$$

$$\cos = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan = \frac{\text{opposite}}{\text{adjacent}}$$



Find the vertex angle of an isosceles triangle with legs of length 8, and a base of length 15.

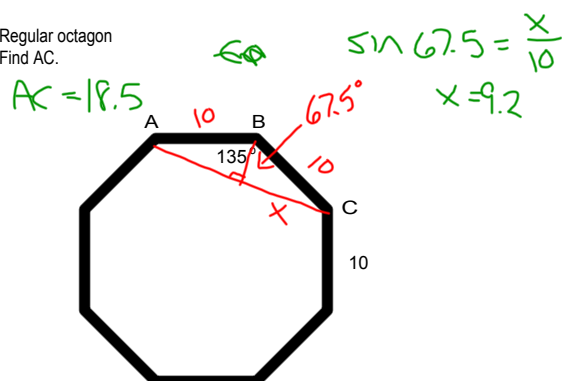


$$\sin x = \frac{7.5}{8}$$

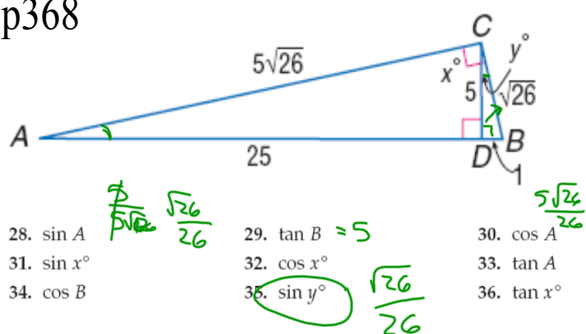
$$\sin^{-1}\left(\frac{7.5}{8}\right) = x$$

$$69.6 = x$$

Regular octagon
Find AC.



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28. $\sin A$
31. $\sin x^\circ$
34. $\cos B$

29. $\tan B = 5$

32. $\cos x^\circ$

35. $\sin y^\circ = \frac{\sqrt{26}}{26}$

30. $\cos A$

33. $\tan A$

36. $\tan x^\circ$

HW

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43-48, 50,

51, 56-58